MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Briscoe Shutters, Inc. **2841 Shoreview Drive** Naples, Florida 34112

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Aluminum Colonial Shutter

APPROVAL DOCUMENT: Drawing No. 13-0579, titled "Colonial Shutter System and Bahama over Colonial Shutter System", sheets 1 through 10 of 10, prepared by Michael Trapasso, P.E., dated September 01, 2012, signed and sealed by Michael Trapasso, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews NOA # 09-0122.08 and consists of this page 1, evidence submitted pages E-1, E-2, & E-3 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S. Help A. Mehr 12/20/2012

MIAMI-DADE COUNTY APPROVED

NOA No. 12-0927.01 Expiration Date: 11/28/2017 **Approval Date: 12/20/2012**

Page 1

Briscoe Shutters, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 02-0722.04

A. DRAWINGS

1. Drawing No. 13-0579 titled "Colonial Shutter Master Plan", sheets 1 through 11 of 11, dated May 10, 2002, prepared by Arthur C. Quinnell, P.E, signed and sealed by Arthur C. Quinnell, P.E.

B. TESTS

- 1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of colonial shutters w/four leaf assembly, prepared by Hurricane Test laboratory, Report No. 0288-0214.02, dated February 19-20, 2002, signed and sealed by Vinu J. Abraham, P.E.
- 2. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of Double Bahama over Colonial Shutters w/ four leaf assembly, prepared by Hurricane Test laboratory, Report No. 0288-1218.01, dated December 13-14, 2001, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. Anchor analysis prepared by Briscoe shutter, Inc., signed and sealed by Arthur C. Quinnell, P.E.

D. MATERIAL CERTIFICATIONS

1. Mill Certified Inspection Report with chemical composition and mechanical properties for aluminum alloy 6063-T52.

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #07-0713.05

A. DRAWINGS

- 1. None.
- B. TEST
 - 1. None.
- C. CALCULATIONS
 - 1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATION

1. None.

Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor

Product Control Unit Supervisor NOA No. 12-0927.01

Expiration Date: 11/28/2017 Approval Date: 12/20/2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 09-0122.08 DRAWINGS

1. Drawing No. 13-0579, titled "Colonial Shutter System and Bahama over Colonial Shutter System", sheets 1 through 11 of 11, prepared by Michael Trapasso, P.E., dated October 13, 2009, signed and sealed by Michael Trapasso, P.E.

B. TESTS

- 1. Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of colonial shutters w/four leaf assembly, prepared by Hurricane Test laboratory, Specimen #1B, Report No. 0288-0611.07, dated May 05, 2008, signed and sealed by Vinu J. Abraham. P.E.
- 2. Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of colonial shutters w/four leaf assembly, prepared by Hurricane Test laboratory, Specimen #4, Report No. 0288-0314.08, dated May 05, 2008, signed and sealed by Vinu J. Abraham, P.E.
- 3. Test report on Uniform Static Air Pressure Test of Bahama shutter System and Bahama over Colonial Shutter System, prepared by Hurricane Test laboratory, LLC Report No. 0288-0611-07, specimen #1, dated May 05, 2008, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. Anchor analysis prepared by Briscoe shutter, Inc., signed and sealed by Michael Trapasso, P.E.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. Mill Certified Inspection Report with chemical composition and mechanical properties for aluminum alloy 6063-T52.

4. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 13-0579, titled "Colonial Shutter System and Bahama over Colonial Shutter System", sheets 1 through 10 of 10, prepared by Michael Trapasso, P.E., dated September 01, 2012, signed and sealed by Michael Trapasso, P.E.

Hermy A. Makar, P.E., M.S. Product Control Unit Supervisor

NOA No. 12-0927.01

Expiration Date: 11/28/2017 Approval Date: 12/20/2012

Briscoe Shutters, Inc.

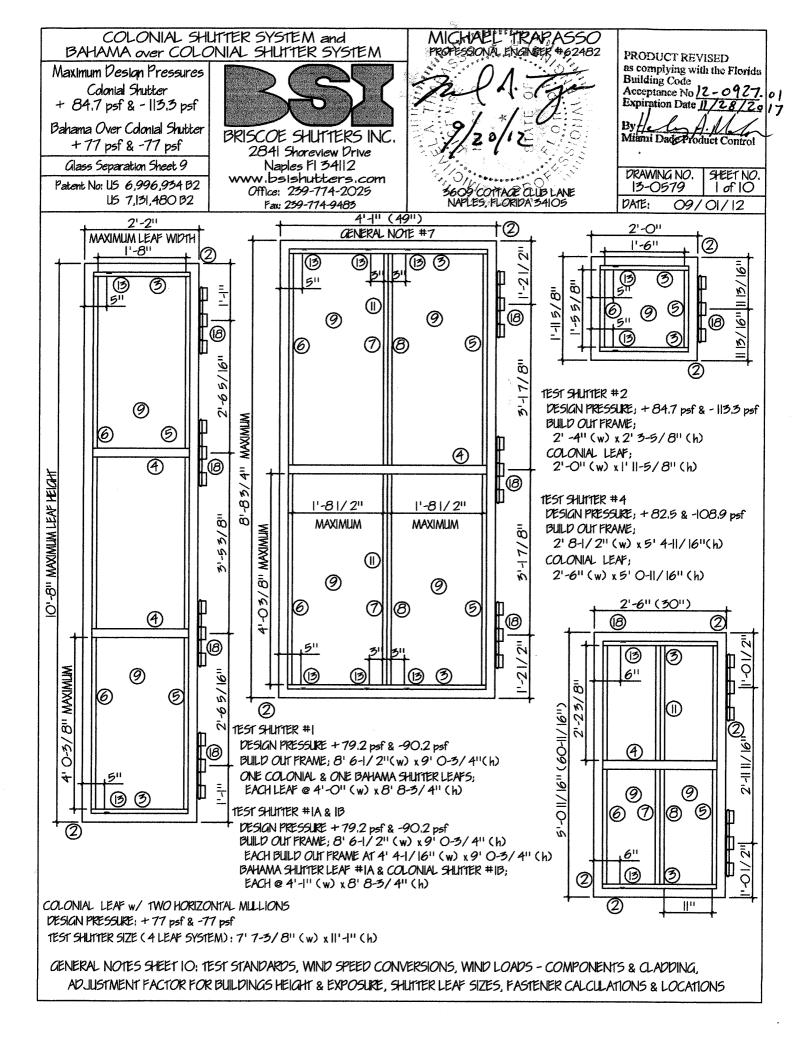
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- B. TESTS
 - 1. None.
- C. CALCULATIONS
 - 1. Revision analysis prepared by Briscoe shutter, Inc., dated September 20, 2012, signed and sealed by Michael Trapasso, P.E.
- D. QUALITY ASSURANCE
 - 1. By Miami-Dade County Department of Regulatory and Economic Resources.
- E. MATERIAL CERTIFICATIONS
 - 1. None.

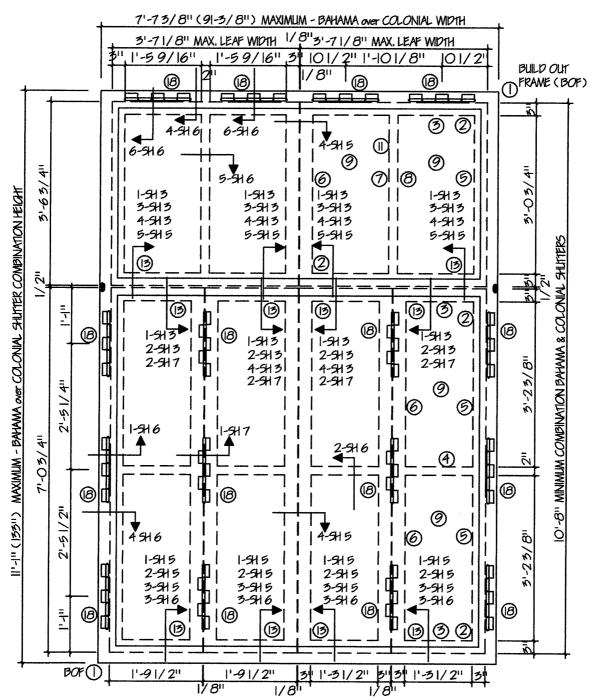
Helmy A. Makar, P.E., M.S. Product Control Unit Supervisor

roduct Control Unit Supervisor NOA No. 12-0927.01

Expiration Date: 11/28/2017 Approval Date: 12/20/2012

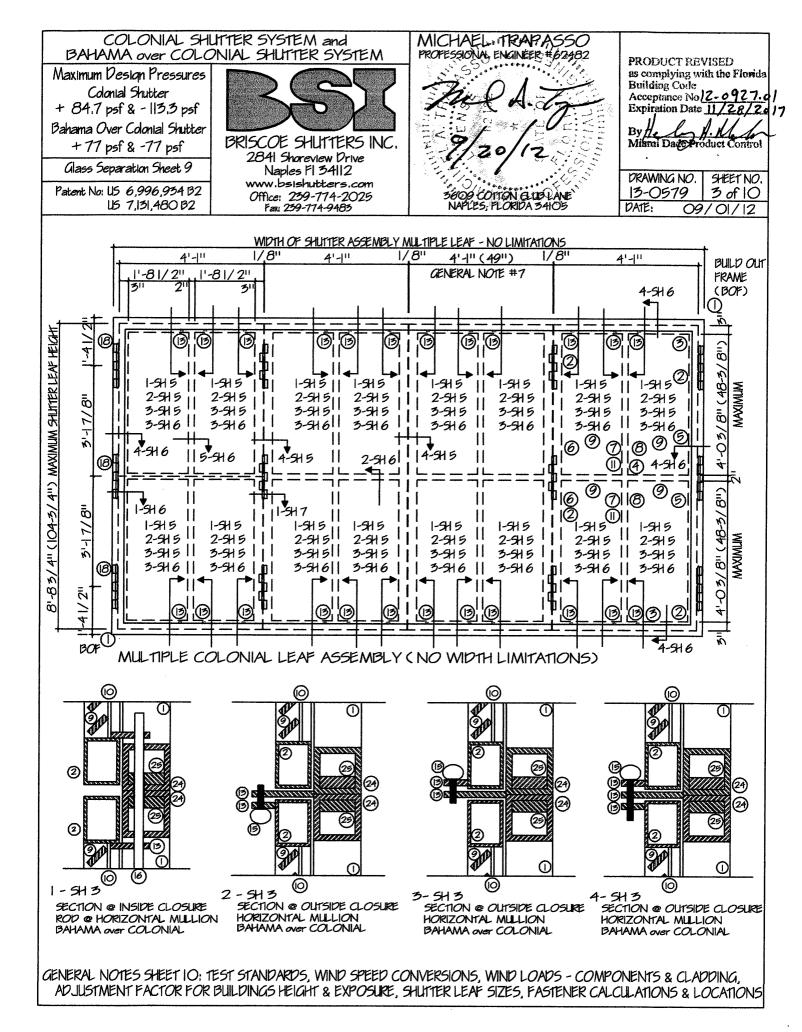






BAHAMA over COLONIAL SHLITTER SYSTEM - DESIGN PRESSURE: +77 psf & -77 psf

GENERAL NOTES SHEET 10: TEST STANDARDS, WIND SPEED CONVERSIONS, WIND LOADS - COMPONENTS & CLADDING, ADJUSTMENT
FACTOR FOR BUILDINGS HEIGHT & EXPOSURE, SHLITTER LEAF SIZES, FASTENER CALCULATIONS & LOCATIONS



COLONIAL SHUTTER SYSTEM and BAHAMA over COLONIAL SHUTTER SYSTEM

Maximum Design Pressures
Colonial Shutter
+ 84.7 psf & - 113.3 psf
Bahama Over Colonial Shutter
+ 77 psf & -77 psf

Glass Separation Sheet 9

Patent No: US 6,996,934 B2 US 7,131,480 B2



BRISCOE SHUTTERS INC 2841 Shoreview Drive Naples Fl 34112 www.bsishutters.com

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PRODUCT REVISED

as complying with the Florida

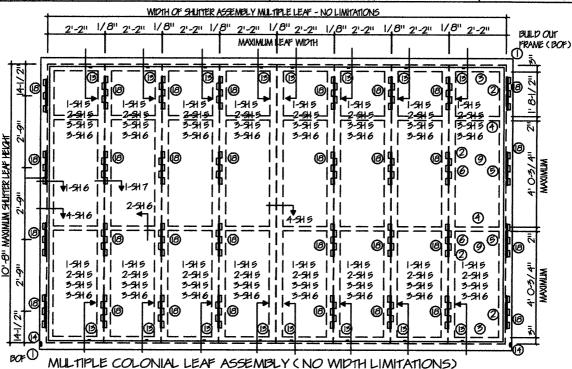
Building Code

Building Code Acceptance No 2-0927. 0/

Expiration Date 11/28/2017

By // // // Miami Date Product Control

DRAWING NO. SHEET NO. 13-0579 4 of 10 DATE: 09/01/12



HINGE ASSEMBLY

1 BAHAMA SHLITTER 4'-1" (49") (w)

HINGES - 2 SETS OF 5 LEAF HINGES AT THE TOP PER SHUTTER, (3 LEAFS AT THE BUILD OUT PRAME & 2 LEAFS AT THE SHUTTER, WITH 3 SCREWS PER LEAF)

2 BAHAMA SHLITTER, 31-7" (45") (w)

HINGES - I SET, 7 LEAF HINGE AT THE TOP PER SHUTTER, (4 LEAFS AT THE BUILD OUT FRAME & 3 LEAFS AT THE SHUTTER, WITH 3 SCREWS PER LEAF)

3 BAHAMA SHLITTER, 2'-6" (30") (w)

HINGES - I SET OF 5 LEAF HINGES AT THE TOP PER SHLITTER, (3 LEAFS AT THE BUILD OUT FRAME & 2 LEAFS AT THE SHLITTER, WITH 3 SCREWS PER LEAF)

HOLD CLOSE TABS

- 1 BAHAMA SHLITTER, 4'-1" (w) x8' 8-3/4" (h) 4 TABS, 2 @ 5" IN FROM OUTSIDE EDGE JAWBS & 2 @ 3" EACH SIDE OF CENTER LINE
- 2 BAHAMA SHLITTER, 3'-7" (w) x6'-0" (h) -2 TABS, 5" TO 6" IN FROM OUTSIDE EDGE JAMBS

SHLITTER LEAF TOLERANCES: ANY COMBINATION OF WIDTH X HEIGHT NOT TO EXCEED 35.64 SQ FT PER LEAF IS ALLOWED WITHIN THE DESIGN PRESSURE

BAHAMA SHLITTER SYSTEM ASSEMBLY:

BAHAMA LEAF; WIDTH 4'-1" (49"), MAXIMUM HEIGHT 8' 8-3/4" (103-3/4"), GENERAL NOTE #7 BAHAMA over COLONIAL SHLITTER SYSTEM ASSEMBLY;

COMBINED BAHAMA & COLONIAL; BOF WIDTH 7' 7-3/8" (91-3/8"), HEIGHT II'-I'' (133") GENERAL NOTE #7

MAXIMUM BAHAMA LEAF; WIDTH 3' 7-1/8" (43-1/8"), MAXIMUM COMBINED HEIGHT - BAHAMA HEIGHT

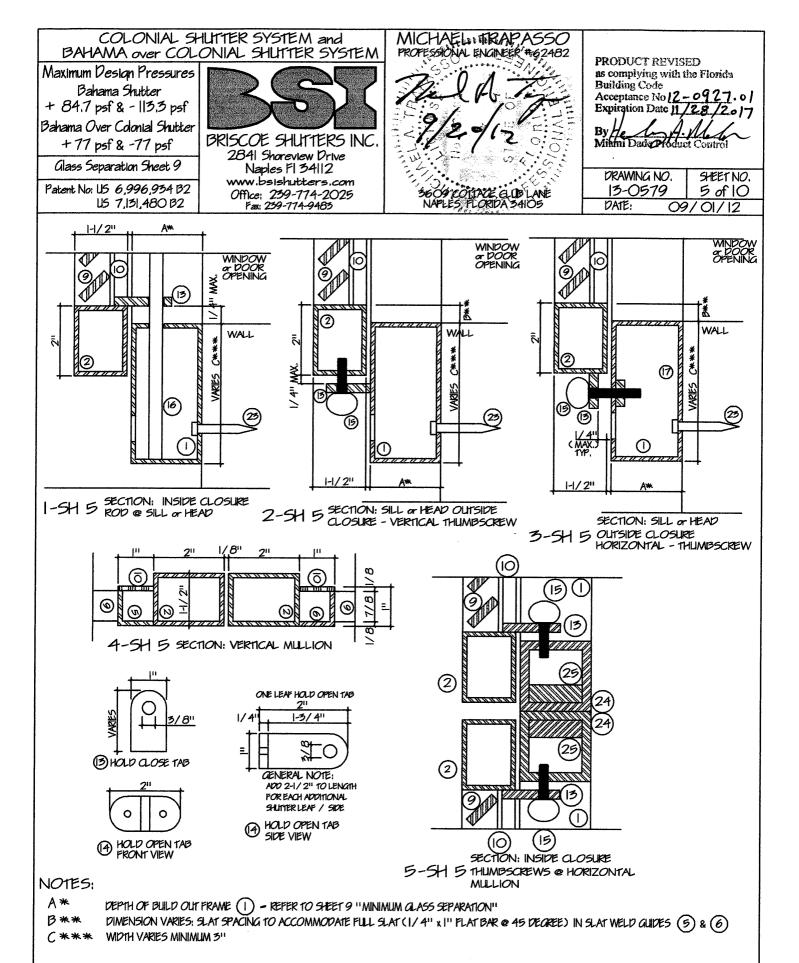
PLUS COLONIAL HEIGHT NOT TO EXCEED 10'-8" (128"), GENERAL NOTE #7

MAXIMUM COLONIAL LEAF; WIDTH 1' 9-1/2" (21-1/2"), MAXIMUM COMBINED HEIGHT - BAHAMA HEIGHT PLUS COLONIAL HEIGHT NOT TO EXCEED 10'-8" (128"), GENERAL NOTE #7

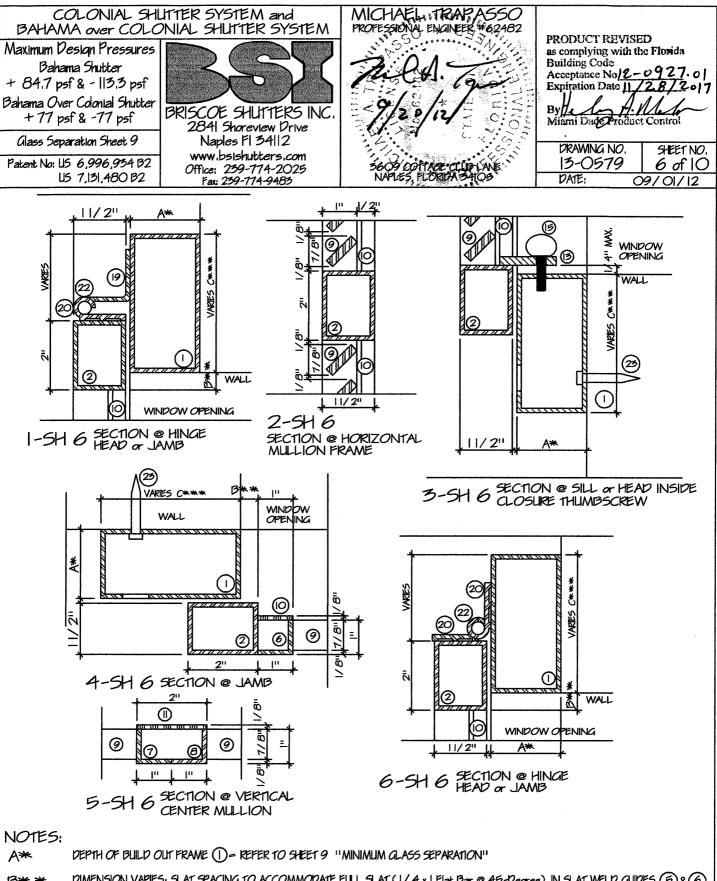
COLONIAL SHUTTER SYSTEM ASSEMBLY:

COLONIAL LEAF; WIDTH 2'-2" (26"), MAXIMUM HEIGHT 10'-8" (128"), GENERAL NOTE #7
COLONIAL LEAF; WIDTH 4'-1" (49"), MAXIMUM HEIGHT 8' 8-3/4" (103-3/4"), GENERAL NOTE #7
GENERAL NOTES SHEET 10: TEST STANDARDS, WIND SPEED CONVERSIONS, WIND LOADS - COMPONENTS & CLADDING, ADJUSTMENT

FACTOR FOR BUILDINGS HEIGHT & EXPOSURE, SHUTTER LEAF SIZES, FASTENER CALCULATIONS & LOCATIONS



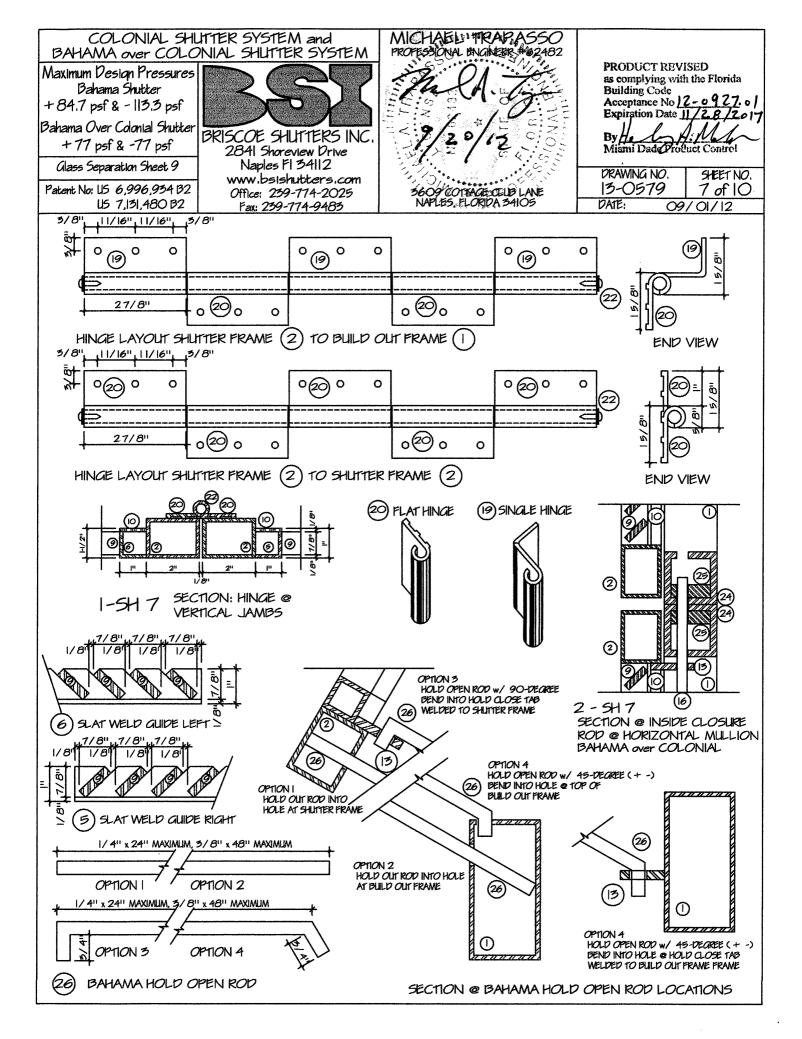
GENERAL NOTES SHEET 10: TEST STANDARDS, WIND LOADS CONVERSIONS, WIND LOADS - COMPONENTS & CLADDING, ADJUSTMENT FACTOR FOR BUILDINGS HEIGHT & EXPOSURE, SHLITTER LEAF SIZES, FASTENER CALCULATIONS & LOCATIONS



B** * DIMENSION VARIES; SLAT SPACING TO ACCOMMODATE FULL SLAT (1/4 x | Flat Bar @ 45-Dearee) IN SLAT WELD GLIDES (5) & (6)

C** WDTH VARIES MINIMUM 3"

GENERAL NOTES SHEET 10: TEST STANDARDS, WIND SPEED CONVERSIONS, WIND LOADS - COMPONENTS & CLADDING, ADJUSTMENT FACTOR FOR BUILDINGS HEIGHT & EXPOSURE, SHLITTER LEAF SIZES, FASTENER SCHEDULES & LOCATIONS



COLONIAL SHUTTER SYSTEM and BAHAMA over COLONIAL SHUTTER SYSTEM

Maximum Design Pressures Bahama Shutter + 84.7 psf & - 113.3 psf Bahama Over Colonial Shutter +77 psf & -77 psf

Glass Separation Sheet 9

Patent No: US 6,996,934 B2 US 7,131,480 B2



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PRODUCT REVISED
as complying with the Florida
Building Code

Building Code Acceptance No [2-0927.0] Expiration Date 11/28/2017

Miami Dade Froduct Control

DRAWING NO. | SHEET NO. | 13-0579 | 8 of 10 | DATE: | 09/01/12

DESCRIPTION OF MATERIAL

Item#	DESCRIPTION OF MATERIAL				SIZE		TYPE	MATERIAL GRADE		
1	BUILD OUT FRAME				* × C*** × 1/8	3 "	TUBE	ALUMINUM 6063-T52		
2	SHUTTER FRAME				1 1/2" × 2" × 1/8"		TUBE	ALUMINUM 6063-T52		
3	SPACER				× 1" × 1/8"		TUBE	ALUMINUM 6063-T52		
4	HORIZONTAL MULLION				/2" × 2" × 1/1	8 "	TUBE	ALUMINUM 6063-T52		
5	SLAT WELD GUIDE RIGHT				× 1" × 1/8"		ANGLE	ALUMINUM 6063-T52		
6	SLAT WELD GUIDE LEFT				× 1" × 1/8"		ANGLE	ALUMINUM 6063-T52		
7	VERTICAL MULLION RIGHT				× 1" × 1/8"		ANGLE	ALUMINUM 6063-T52		
8	VERTICAL MULLION LEFT				× 1" × 1/8"		ANGLE	ALUMINUM 6063-T52		
9	SLATS				4" × 1"		FLATBAR	ALUMINUM 6063-T52		
10	JAMB WELD GUIDE COVER				× 1/8"		FLAT BAR	ALUMINUM 6063-T52		
11	VERTICAL MULLION BACK COVER				8" × 2"		FLATBAR	ALUMINUM 6063-T52		
12										
13	HOLD CLOSE TAB				4" × 1" × Vario	es	FLATBAR	ALUMIN	NUM 6063-T52	
14	HOLD OPEN TAB				1/4" × 1" × Varies		FLATBAR		NUM 6063-T52	
15-15*	SHUTTER CLOSURE THUMBSCREW				4" × 1" or *1 1	/2"	THUMBSCREW STAINLESS STEEL			
16	INSIDE CLOSURE ROD 3/8" × VARIES				PER SHUTTER		ROD	ALUMINUM 6063-T52		
17										
18	HINGE ASSEMBLY									
19	SINGLE HINGE				3/16" x 2-7/8" x 1-5/8"			ALUMINUM 6061-T6		
20	FLAT HINGE				3/16" × 2-7/8" × 1-5/8"			ALUMINUM 6061-T6		
21	HINGE SCREWS				0 x 1" 3 AT E	ACH HI	NGE LEAF	HEX SELF-DRILLING		
22	HINGE PIN				8" DIAMETE	R	ROD ALUMINUM 6063-T52		NUM 6063-T52	
23 BUILD OUT FRAME FASTENERS										
CONCRETE BLOCK HOLLOW 1/4 × MIN EMB							NC. SCREW	ELCO IND. or EQUAL		
CONCRETE BLOCK; CONC. FILL 1/4 × MIN EMB							NC. SCREW	ELCO IND. or EQUAL		
					LAG BOLT or SS CONC. SCREW			ELCO IND. or EQUAL		
WOOD FRAMING 5/16" x MIN. EMBED 1 1/4"					LAG BOLT	or 55 CO	IC. SCREW ZINC, SS or EQUAL			
METAL FRAMING 12-24 × MIN. EA				MBE	D 1"		TEK SCREW	TEK SELF-DRILLING		
24	HORIZONTAL		2" × 2" × 1/4"			TUBE	ALUMINUM 6061-T6			
25	HORIZONTAL MULLION STIFFENER			1/2	2" × 1-1/2"		FLATBAR	ALUMINUM 6061-T6		
26	HOLD OUT ROD 1/4 x 24" MAXIMUM, 3/				48"MAXIM	UM	ROD	ALUMINUM 6063-T52		
	V METHOD:		II							

ASSEMBLY METHOD:

SHUTTER FRAME

- 1A SHUTTER FRAME CORNER CONSTRUCTION, AT EACH PANEL CORNER, THE ADJOINING STILE / RAIL ENDS ARE MITER CUT, BUTTED AND WELDED TOGETHER USING TWO (2) 1/4" × 2-13/16" FILET WELDS ONE PER FACE, EACH FACE WELD IS GROUND DOWN SMOOTH
- 1B INTERMEDIATE RAIL END CONSTRUCTION, AT EACH INTERMEDIATE RAIL END, THE RAIL IS SQUARE CUT, BUTTED AND WELDED TO THE ADJACENT PANEL FRAME MEMBER USING TWO (2) 1/4" x 2" FILET WELDS ONE PER FACE, EACH FACE WELD IS GROUND SMOOTH
- 1C SLAT WELD GUIDES WELDED TO THE SHUTTER FRAME JAMBS ON THE INSIDE AT 6" O/C, TOP AND BOTTOM
- 1D VERTICAL MULLION WELD GUIDE; ONE RIGHT WELD GUIDE AND ONE LEFT WELD GUIDE WELDED TOGETHER ON THE INSIDE AT 6" O/C, THIS MEMBER IS WELDED TO THE HEAD, MULLIONS, AND SILL
- 1E SLANTED SLAT CONSTRUCTION, ALL SLATS ARE SQUARE CUT AND WELDED AT EACH END TO THE ADJACENT PANEL STILE MEMBER USING ONE (1) 1/4" x 1" FILET WELD

BUILD OUT FRAME

2A BUILD OUT FRAME CONSTRUCTION, AT EACH CORNER THE ADJOINING STILE / RAIL ENDS ARE MITER CUT, BUTTED AND WELDED TOGETHER USING TWO (2) 1/4" x 4-1/4" (1 x 3) OR TWO (2) 1/4" x 5 11/16" (1 x 4) FILER WELDS - ONE PER FACE, EACH FACE WELD IS GROUND DOWN SMOOTH

COLONIAL SHLITTER SYSTEM and BAHAMA over COLONIAL SHLITTER SYSTEM

Maximum Design Pressures
Bahama Shutter
+84.7 psf & -113.3 psf
Bahama Over Colonial Shutter
+77 psf & -77 psf

Glass Separation Sheet 9

Patent No: US 6,996,934 B2 US 7,131,480 B2



BRISCOE SHUTTERS INC 2841 Shoreview Drive Naples F1 34112 www.bsishutters.com Office: 259-774-2025 Fax: 239-774-9483



PRODUCT REVISED as complying with the Florida Building Code

Acceptance No 2-0927.01 Expiration Date 11/28/2017

Miami Dade Product Control

DRAWING NO. SHEET NO. 13-0579 9 of 10 DATE: 09/01/12

EXAMPLE

A 41.6 sq. ft, shutter has a negative IOI.75 psf design pressure.

41.6 sq. ft., x 101.75 psf -4,232.8 lb. design load.

BSI HURRICANE SHUTTER SYSTEMS HAS A BUILD OUT FRAME (BOF) ()
THAT ATTACHES TO THE BUILDING (INSIDE CLEAR OPENING IS 1 / 4"
LARGER THEN BUILDING OPENING), DEPTH OF BOF IS GOVERNED
BY THE GLASS SEPARATION, SHUTTERS ARE FACTORY ASSEMBLED
TO THE BOF THEN DISASSEMBLED FOR SHIPPING & INSTALLATION

BUILD OUT FRAME DEPTH IS GOVERNED BY THE GLASS SEPARATION FURTHEST OUTWARD GLASS SURFACE TO BACK OF SHUTTER SLATS

DISTANCE FROM FACE OF BUILDING TO FURTHEST OUTWARD GLASS SURFACE, MINUS (-) MINIMUM GLASS SEPARATION - DEPTH OF BUILD OUT FRAME (MINIMUM DEPTH !")

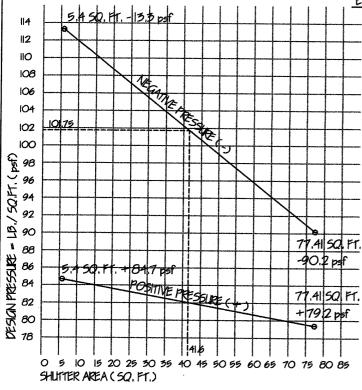
MINIMUM GLASS SEPARATION BACK OF SLATS TO GLASS SHUTTER SIZE MAX. SQ. FT. TYPE OF SHUTTER SEPARATION 3.94 saft 24" x 23.625" BAHAMA 2-1/4" 30" x 60.6875" 12.64 sqft 30.01" x 60.7 12.65 saft 2-3/41 BAHAMA to 49" x 104.75" to 35.64 saft & 26" x | 28" & 21.11 saft BAHAMA over ALL SIZES 3-1/411 84.4 saft COLONIAL

ANY COMBINATION OF WIDTH x HEIGHT NOT TO EXCEED 35.64 sq ft PER LEAF IS ALLOWABLE WITHIN THE DESIGN PRESSURE, GENERAL NOTE $\pm7.$ SHEET IO

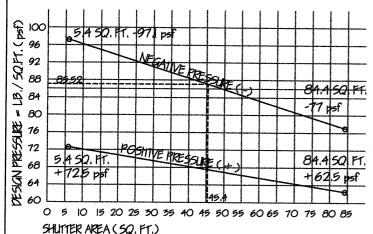
EXAMPLE

A 45.4 sq, ft, shutter has a negative 85.2 psf design pressure.

45.4 sq. ft.. x 85.2 psf -3.868.08 lb. design load.



DESIGN PRESSURE CHART FOR FASTENER LOAD CALCULATIONS BAHAMA & COLONIAL SHUTTER SYSTEMS



DESIGN PRESSURE CHART FOR FASTENER LOAD
CALCULATIONS BAHAMA over COLONIAL SHUTTER SYSTEM

GENERAL NOTES SHEET 10: TEST STANDARDS, WIND SPEED CONVERSIONS, WIND LOADS - COMPONENTS & CLADDING, ADJUSTMENT FACTOR FOR BUILDINGS HEIGHT & EXPOSURE, SHUTTER LEAF SIZES, FASTENER CALCULATIONS & LOCATIONS

COLONIAL SHLITTER SYSTEM and BAHAMA over COLONIAL SHLITTER SYSTEM

Maximum Desian Pressures Bahama Shutter + 84.7 psf & - 113.3 psf

Bahama Over Colonial Shutter +77 psf & -77 psf

Glass Separation Sheet 9

Patent No: US 6,996,934 B2 US 7,131,480 B2



BRISCOE SHLITTERS INC. 2841 Shoreview Drive Nables FI 34112 www.bsishutters.com Office: 239-774-2025

Fax: 239-774-9483



PRODUCT REVISED as complying with the Florida **Building Code** Acceptance No/2-0927.01 Expiration Date 11/28/2017 Miami Dade Product Control

DRAWING NO. 13-0579

SHEET NO. 10 of 10

DATE: 09/01/12

GENERAL NOTES:

- THIS PRODUCT IS DESIGNED & TESTED IN ACCORDANCE WITH THE 2010 FLORIDA BUILDING CODE (FBC) BUILDING & RESIDENTIAL; FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, TEST STANDARDS; TAS 201, 202, 203
- 2 2010 FLORIDA BUILDING CODE BUILDING: ULTIMATE DESIGN WIND SPEEDS CHAPTER 16, FIGURES; 1609A (pq. 16.14), 1609B (pq. 16.15), OR 1609C (pg. 16.16)
- 3 2010 FLORIDA BUILDING CODE BUILDINGS: WIND SPEED CONVERSIONS, CHAPTER 16, SECTIONS 1609, 3,1 WIND SPEED CONVERSION, WHEN REQUIRED, LLTIMATE DESIGN WIND SPEEDS OR FIGURE 1609A, B, AND C SHALL BE CONVERTED TO NOMINAL DESIGN WIND SPEEDS, Vasd LISING TABLE 1609,3.1 OR EQUATION 16-32 (Vasd = Vult SQUARE ROOT OF O.6 (=,775)) WHERE; Vasd = NOMINAL DESIGN WIND SPEEDS, Vult = STRENGTH DESIGN WIND SPEEDS DETERMINED FROM FIGURES 1609A. 1609B. or 1609C
- 4 ASCE 7-10, CHAPTER 30 (pg. 346) WIND LOADS COMPONENTS AND CLADDING METHOD 1, NET DESIGN WIND PRESSURES, Pret 30 (psf) (Exposure B at h = 30 ft.) NOTE: FOR EFFECTIVE AREAS BETWEEN THE THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED. OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWEST EFFECTIVE AREA
- ASCE 7-10, CHAPTER 30 (pg. 347), MINIMUM DESIGN LOADS COMPONENTS IN CLADDING METHOD I, ADJUSTMENT FACTOR FOR BUILDING HEIGHT AND EXPOSURE B. C. & D
- 6 FASTENER CALCULATIONS & LOCATIONS:
 - WIDTH x HEIGHT x DESIGN PRESSURE (6a) / FASTENER STRENGTH (6b) = TOTAL NUMBER OF FASTENERS REQUIRED PER OPENING (6c)
 - 6a DESIGN PRESSURE REQUIRED BUILDING DATA; WIND VELOCITY (MPH), IMPORTANCE FACTOR, EXPOSURE CATEGORY, INTERNAL PRESSURE COEFFICIENT +-, MEAN ROOF HEIGHT, BUILDING WIDTH, BUILDING LENGTH, & ROOF SLOPE (x:12)
 - 66 FASTENER STRENGTH, ALLOWABLE LOADS EQUAL TO 25% OF THE AVERAGE LLTIMATE LABORATORY TEST VALUES, ELCO CONSTRUCTION PRODUCTS AGGRE-GATOR FASTENERS 300 SERIES STAINLESS STEEL (HEX HEAD - 1/4 x 4 MAX.), CRETE-FLEX 554 MASONRY SCREWS (HEX HEAD - 1/4 x 4 MAX.), ELCO LLTRACON CONCRETE & MASONRY ANCHORS (HEX HEAD - 1/4 x 6 MAX, OR HEX HEAD - 5/16 x 6 MAX,) OR EQUAL
 - 60 FASTENER SPACING AND LOCATIONS: MAJORITY OF FASTENERS AT PRESSURE POINTS (HINGES, HOLD CLOSE TABS OR BRACKETS) BALANCE ON SIDES (BAHAMA) OR TOP & BOTTOM (COLONIAL) OF THE BUILD OUT FRAME, IN ACCORDANCE WITH MANUFACTURES HURRICANE SHUTTER SHOP DRAWINGS FOR EACH SIZE AND / OR OPENING

ANCHOR INSTALLATION SHALL BE MADE IN ACCORDANCE WITH ANCHOR MANUFACTURES PUBLISHED INSTALLATION INSTRUCTIONS AND THEIR APPROVED NOA

- 7 ANY COMBINATION OF WIDTH X HEIGHT NOT TO EXCEED 35.64 SQUARE FEET PER SHUTTER LEAF IS ALLOWABLE WITHIN THE DESIGN PRESSURE
- 8 BSI HURRICANE SHUTTER SYSTEMS HAS A BUILD OUT FRAME (BOF) (1) THAT ATTACHES TO THE BUILDING (INSIDE CLEAR OPENING IS 1/4" LARGER THEN BUILDING OPENING), DEPTH OF THE BOF IS GOVERNED BY THE GLASS SEPARATION, SHUTTERS ARE FACTORY ASSEMBLED TO THE BOF THEN DISASSEMBLED FOR SHIPPING & INSTALLATION
- 9 FOR THE PURPOSE OF THE TESTING REQUIRED IN TAS 202 SECTION 5.2. DESIGN PRESSURE CALCULATED IN ACCORDANCE WITH ASCE 7-10 ARE PERMITTED TO BE MULTIPLIED BY 0.6